

EASY GUIDE TO INSULATION

including **PORT HEDLAND
BROOME
WYNDHAM**

If walls are shaded there may be no requirement for insulation. Refer to the Building Code of Australia (BCA) for details.

Refer to the Building Code of Australia for insulation requirements for reflective foil laminates and combination foil and bulk insulation blankets.

In all ceilings and bulkheads
INSTALL **R2.5** INSULATION

ZONE 1

For light coloured or ventilated roofs refer to the Building Code of Australia for details.

How thick (in mm) does the insulation have to be?

COMMON BULK INSULATION MATERIALS	R1.0	R1.5	R2.0	R2.5	R3.0	R3.5
Cellulose fibre loose fill	40	60	80	100	120	140
Glass fibre batt	44	66	88	110	132	154
Polyester or wool blanket	45	68	90	113	135	158
Polystyrene expanded	39	59	78	98	117	137
Polystyrene extruded	28	42	56	70	84	98
Polyurethane rigid foamed aged	28	42	56	70	84	98
Rockwool batt	33	50	66	83	99	116
Wool (80%) polyester (20%) batt	45	68	90	113	135	158

* These values are indicative only. R-value is reduced if the material is compressed to a lesser thickness that affects the density. Refer to manufacturers catalogue for values at various densities.

Are the walls made of a **TIMBER FRAME** with timber, steel or fibre cement sheet cladding
INSTALL **R1.0** INSULATION

Are the walls made of a **STEEL FRAME** with timber, steel or fibre cement sheet cladding
INSTALL **R1.0** INSULATION

Are the walls made of **RAMMED EARTH** or mud bricks
INSTALL **R1.0** INSULATION

Are the walls made of **REVERSE BRICK VEN** (bricks on the inside only)
INSTALL **R1.0** INSULATION

Are the walls made of **BRICK VENEER** (bricks on the outside only)
INSTALL **R1.0** INSULATION

Are the walls made of **DOUBLE BRICK** with a cavity
INSTALL **R1.0** INSULATION

CONCRETE SLAB ON GROUND
For other methods of floor construction refer to the Building Code of Australia (BCA)

Insulation in all new homes and renovations must adhere to the Building Code of Australia (BCA)

This may also be used as a guide for ceiling insulation in existing homes. However, retrofitting insulation in existing walls may be difficult.

EASY GUIDE TO INSULATION

including **CARNARVON
NEWMAN
HALLS CREEK**

Refer to the Building Code of Australia for insulation requirements for reflective foil laminates and combination foil and bulk insulation blankets.

In all ceilings and bulkheads
INSTALL **R2.5** INSULATION

ZONE 3

How thick (in mm) does the insulation have to be?

COMMON BULK INSULATION MATERIALS	R1.0	R1.5	R2.0	R2.5	R3.0	R3.5
Cellulose fibre loose fill	40	60	80	100	120	140
Glass fibre batt	44	66	88	110	132	154
Polyester or wool blanket	45	68	90	113	135	158
Polystyrene expanded	39	59	78	98	117	137
Polystyrene extruded	28	42	56	70	84	98
Polyurethane rigid foamed aged	28	42	56	70	84	98
Rockwool batt	33	50	66	83	99	116
Wool (80%) polyester (20%) batt	45	68	90	113	135	158

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Are the walls made of a **TIMBER FRAME** with timber, steel or fibre cement sheet cladding
INSTALL **R1.0** INSULATION

Are the walls made of a **STEEL FRAME** with timber, steel or fibre cement sheet cladding
INSTALL **R1.0** INSULATION

Are the walls made of **RAMMED EARTH** or mud bricks
INSTALL **R1.0** INSULATION

Are the walls made of **REVERSE BRICK VENEER** (bricks on the inside only)
INSTALL **R1.0** INSULATION

Are the walls made of **BRICK VENEER** (bricks on the outside only)
INSTALL **R1.0** INSULATION

Are the walls made of **DOUBLE BRICK** with a cavity
INSTALL **R1.0** INSULATION

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EASY GUIDE TO INSULATION

including **KALGOORLIE**
NORTHAM
WAGIN
MEEKATHARRA

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In all ceilings and bulkheads
INSTALL **R3.5** INSULATION

ZONE 4

How thick (in mm) does the insulation have to be?

COMMON BULK INSULATION MATERIALS	R1.0	R1.5	R2.0	R2.5	R3.0	R3.5
Cellulose fibre loose fill	40	60	80	100	120	140
Glass fibre batt	44	66	88	110	132	154
Polyester or wool blanket	45	68	90	113	135	158
Polystyrene expanded	39	59	78	98	117	137
Polystyrene extruded	28	42	56	70	84	98
Polyurethane rigid foamed aged	28	42	56	70	84	98
Rockwool batt	33	50	66	83	99	116
Wool (80%) polyester (20%) batt	45	68	90	113	135	158

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Are the walls made of a **TIMBER FRAME** with timber, steel or fibre cement sheet cladding
INSTALL **R2.0** INSULATION

Are the walls made of a **STEEL FRAME** with timber, steel or fibre cement sheet cladding
INSTALL **R2.0** INSULATION

Are the walls made of **RAMMED EARTH** or mud bricks
INSTALL **NIL** INSULATION

Are the walls made of **REVERSE BRICK VENEER** (bricks on the inside only)
INSTALL **R2.0** INSULATION

Are the walls made of **BRICK VENEER** (bricks on the outside only)
INSTALL **R2.0** INSULATION

Are the walls made of **DOUBLE BRICK** with a cavity
INSTALL **NIL** INSULATION

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EASY GUIDE TO INSULATION

including **PERTH**
MANDURAH
BUNBURY
GERALDTON
MARGARET RIVER
ESPERANCE

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In all ceilings and bulkheads
 INSTALL **R3.0** INSULATION

ZONE 5

How thick (in mm) does the insulation have to be?

COMMON BULK INSULATION MATERIALS	R1.0	R1.5	R2.0	R2.5	R3.0	R3.5
Cellulose fibre loose fill	40	60	80	100	120	140
Glass fibre batt	44	66	88	110	132	154
Polyester or wool blanket	45	68	90	113	135	158
Polystyrene expanded	39	59	78	98	117	137
Polystyrene extruded	28	42	56	70	84	98
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Rockwool batt	33	50	66	83	99	116
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 INSTALL **R1.5** INSULATION

Are the walls made of a **STEEL FRAME** with timber, steel or fibre cement sheet cladding
 INSTALL **R1.5** INSULATION

Are the walls made of **RAMMED EARTH** or mud bricks
 INSTALL **NIL** INSULATION

Are the walls made of **REVERSE BRICK VENEER** (bricks on the inside only)
 INSTALL **R1.5** INSULATION

Are the walls made of **BRICK VENEER** (bricks on the outside only)
 INSTALL **R1.5** INSULATION

Are the walls made of **DOUBLE BRICK** with a cavity
 INSTALL **NIL** INSULATION

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EASY GUIDE TO INSULATION

including **ALBANY**
PEMBERTON
MANJIMUP
WALPOLE

Refer to the Building Code of Australia for insulation requirements for reflective foil laminates and combination foil and bulk insulation blankets.

In all ceilings and bulkheads
INSTALL **R3.5** INSULATION

ZONE 6

How thick (in mm) does the insulation have to be?

COMMON BULK INSULATION MATERIALS	R1.0	R1.5	R2.0	R2.5	R3.0	R3.5
Cellulose fibre loose fill	40	60	80	100	120	140
Glass fibre batt	44	66	88	110	132	154
Polyester or wool blanket	45	68	90	113	135	158
Polystyrene expanded	39	59	78	98	117	137
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Are the walls made of a **TIMBER FRAME** with timber, steel or fibre cement sheet cladding
INSTALL **R2.0** INSULATION

Are the walls made of a **STEEL FRAME** with timber, steel or fibre cement sheet cladding
INSTALL **R2.0** INSULATION

Are the walls made of **RAMMED EARTH** or mud bricks
INSTALL **R0.5** INSULATION

Are the walls made of **REVERSE BRICK VENEER** (bricks on the inside only)
INSTALL **R2.0** INSULATION

Are the walls made of **BRICK VENEER** (bricks on the outside only)
INSTALL **R2.0** INSULATION

Are the walls made of **DOUBLE BRICK** with a cavity
INSTALL **R0.5** INSULATION

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